### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

Not yet assigned

Filing Date:

Herewith

Applicant:

Akira Enokihara et al.

Group Art Unit:

Not yet assigned

Examiner:

Not yet assigned

Title:

Resonator and High-Frequency Filter

Attorney Docket:

5077-000055/COA

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

### **INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

#### I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

### II. COPIES

AX Submitted herewith is a legible copy of (i) each U.S. patent application
publication and U.S. and foreign patent; (ii) each publication or that portion which
caused it to be listed; (iii) for each cross-referenced pending U.S. application
listed below in Section IV, the application specification including the claims, and
any drawing of the application which caused it to be listed including the claims
directed to that portion; and (iv) all other information or that portion which caused
it to be listed.

B. \_\_\_\_ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

III.

IV.

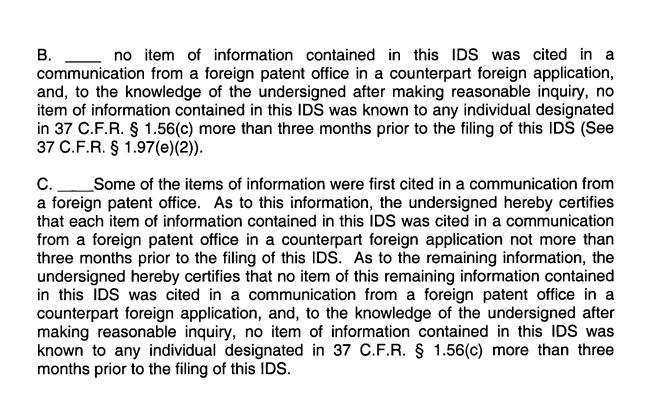
C Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.
D This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))
CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)
AX_ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).
B A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):
<ol> <li>See the attached foreign patent office communication from a counterpart foreign application.</li> <li>X_English translations are provided: Abstracts &amp; partial translations.</li> <li>Other:</li> </ol>
CThe following additional information is provided for the Examiner's consideration.
CROSS REFERENCE TO RELATED APPLICATION(S)
AThe Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.
Serial No. Filing Date Art Unit

## V. THIS IDS IS BEING FILED UNDER

A.\_X\_\_37 C.F.R. § 1.97(b): (check only one box)

	1. X within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
	2 within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
	3 before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
	4 before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.
В	37 C.F.R. § 1.97(c): (check only one box)
	before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
	1No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
	2See the certification below. No fee is required.
C	37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
CEF	RTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
The	undersigned hereby certifies that:
com not 1.97	each item of information contained in this IDS was first cited in a munication from a foreign patent office in a counterpart foreign application more than three months prior to the filing of this IDS (See 37 C.F.R. § (e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, plicable; or

VI.



## VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

## VIII. PAYMENT OF FEES (check only one box)

A. \_\_\_\_ A check in the amount of \$180.00 is enclosed for the above-identified fee.

B. \_\_\_\_Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: Mar 17, 2004

Gregory A Stobbs Reg. No. 28,764

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

GAS/kk

## FORM HDP-1449 (Based on Form PTO-1449)

# PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

SERIAL NO.
GROUP

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		5,874,870	02/23/1999	Nishiyama et al.		
2.		6,323,746 B1	11/27/2001	Prager et al.		
3.		6,255,917 B1	07/03/2001	Scott		
4.		6,169,467 B1	01/02/2001	El-Sharawy		
5.		5,805,033	09/08/1998	Liang et al.		
6.		4,963,841	10/16/1990	Sparagna		
7.		4,661,790	04/28/1987	Gannon et al.		
8.		4,639,699	01/27/1987	Nishikawa et al.		
9.		4,028,652	06/07/1977	Wakino et al.		
10.		4,725,798	02/16/1988	Igarashi		

FORE	IGN PATEN	IT DOCUMENTS					
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.		53-076747 A	11/30/1976	Japan		Partial	
2.		63-110618	05/16/1988	Japan		Partial	
3.		63-010603 A	01/23/1988	Japan		Partial	
4.		63284902	11/22/1988	Japan		Abstract	
5.		63250201	10/18/1988	Japan		Abstract	
6.		0 859 423 A1	08/19/1998	Europe			_
7.		08065006 A	03/08/1996	Japan		Abstract	
8.		2000-114809 A	04/21/2000	Japan		Abstract	

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Examiner:	Date Considered:
Examiner.	Date Considered.

## FORM HDP-1449 (Based on Form PTO-1449)

## PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET NO.	SERIAL NO.
5077-000055/COA	
APPLICANT	
Akira Enokihara et al.	
FILING DATE	GROUP
Herewith	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials			
1.		Farhat Abbas et al., "Ultra-high-Q resonators for low-noise, microwave signal generation using sapphire buffer layers and superconducting thin films"; Superconductor Science and Technology; Vol. 7, No. 7; July 1, 1994; pp. 495-501.		
2.		Notice of Reasons of Rejection for Patent Application No. 2001-176674 and English Translation; Mailed September 24, 2003.		

Examiner:	Date Considered:	